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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,836	05/31/2005	Tadayoshi Ito	038440-0124	6495
22428	7590	06/16/2008	EXAMINER	
FOLEY AND LARDNER LLP			NGUYEN, KHAI MINH	
SUITE 500				
3000 K STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2617	
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			06/16/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/536,836	ITO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	KHAI M. NGUYEN	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 25 February 2008.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ .  | 6) <input type="checkbox"/> Other: _____ .                        |

## **DETAILED ACTION**

1. The indicated allowability of claims 1-6 is withdrawn in view of the newly discovered reference(s). Rejections based on the newly cited reference(s) follow.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eun (U.S.Pat-6119015) in view of Kotani Gensai (JP-11-205849) and further in view of Stanwood et al. (U.S.Pub-20050243745).

Regarding claim 1, Eun teaches a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500), and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), wherein the slave base station includes:

frame synchronizing means for synchronizing a frame of said slave base station with a frame of the master base station (col.2, lines 50-67), and

each of the base stations (fig.1) includes:

reception level obtaining means for obtaining a reception level of said set

reception control slot (col.4, lines 30-33) when a link channel establishment request message is received in said set reception control slot (col.4, line 48 to col.5, line 5), and

traffic channel allocating means for allocating a traffic channel (col.4, lines 39-42) with respect to a mobile station transmitting the link channel establishment request message to predetermined transmission (col.4, lines 33-47) and reception slots in the frame according to a traffic channel allocation instruction (fig.5, col.8, line 58 to col.9, line 32); and

the control device (PABX/ key system) includes:

allocation instructing means for receiving the reception level from each of the base stations (col.7, lines 9-22), determining the base station of the maximum reception level and transmitting the traffic channel allocation instruction to the determined base station (not specifically disclose).

Eun fails to specifically disclose slot setting means for setting, as a reception control slot, a predetermined reception slot in the frame of said slave base station matching in timing with a reception control slot in the frame of the master base station. However, Kotani teaches slot setting means for setting (abstract), as a reception control slot, a predetermined reception slot in the frame of said slave base station matching in timing with a reception control slot in the frame of the master base station ([0038]-[0041]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determining the base station of the maximum reception level and transmitting the traffic channel allocation instruction to the determined base station. However, Stanwood teaches determining the base station of the maximum reception level ([0054] lines 13-15) and transmitting the traffic channel allocation instruction to the determined base station ([0070]-[0071]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Stanwood to Eun and Kotani to make it easy to monitor and update the communication link time slot allocations.

Regarding claim 4, Eun teaches a channel allocation method in a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500) and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), comprising the steps of:

causing the slave base station to synchronize a frame of said slave base station with a frame of the master base station (col.2, lines 50-67);

causing each of the base stations to obtain a reception level of the set reception control slot (col.4, lines 30-33) when the base station receives a link channel establishment request message in said set reception control slot (col.4, line 48 to col.5, line 5);

causing the control device to receive the reception level from each of the base stations (col.7, lines 9-22), determine the base station of the maximum reception level

and transmit a traffic channel allocation instruction to the determined base station (not specifically disclose); and

causing the base station receiving the traffic channel (col.4, lines 39-42) allocation instruction to allocate a traffic channel with respect to a mobile station transmitting the link channel establishment request message to the predetermined transmission (col.4, lines 33-47) and reception slots in the frame (fig.5, col.8, line 58 to col.9, line 32).

Eun fails to specifically disclose causing the slave base station to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot. However, Kotani teaches causing the slave base station (abstract) to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot ([0038]-[0041]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station. However, Stanwood teaches determine the base station of the maximum reception level ([0054] lines 13-15) and transmit a traffic channel allocation instruction to the determined base station ([0070]-[0071]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to

apply the teaching of Stanwood to Eun and Kotani to easily monitor and update the communication link time slot allocations.

Regarding claim 7, Eun teaches a computer readable medium embedding a channel allocation program in a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500) and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), the channel allocation program, when executed by a computer, causing the computer to execute the steps of:

causing the slave base station to synchronize a frame of said slave base station with a frame of the master base station (col.2, lines 50-67);

causing each of the base stations to obtain a reception level of the set reception control slot (col.4, lines 30-33) when the base station receives a link channel establishment request message in said set reception control slot (col.4, line 48 to col.5, line 5);

causing the control device to receive the reception level from each of the base stations (col.7, lines 9-22), determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station (not specifically disclose); and

causing the base station receiving the traffic channel (col.4, lines 39-42) allocation instruction to allocate a traffic channel with respect to a mobile station transmitting the

link channel establishment request message to the predetermined transmission (col.4, lines 33-47) and reception slots in the frame (fig.5, col.8, line 58 to col.9, line 32).

Eun fails to specifically disclose causing the slave base station to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot. However, Kotani teaches causing the slave base station (abstract) to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot ([0038]-[0041]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station. However, Stanwood teaches determine the base station of the maximum reception level ([0054] lines 13-15) and transmit a traffic channel allocation instruction to the determined base station ([0070]-[0071]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Stanwood to Eun and Kotani to easy to monitor and update the communication link time slot allocations.

4. Claims 2-3, 5-6, and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eun (U.S.Pat-6119015) in view of Kotani Gensai (JP-11-205849), in

view of Stanwood et al. (U.S.Pub-20050243745), and further in view of Yonekura et al. (JP-2000-253460).

Regarding claim 2, Eun, Kotani, and Stanwood further teach the radio base station system according to claim 1,

Eun and Kotani fail to specifically disclose wherein said traffic channel allocation means of the slave base station allocates the traffic channel to the reception slot satisfying predetermined conditions when said reception slot satisfying said predetermined conditions exists other than said predetermined reception slot, and allocates the traffic channel to said predetermined reception slot when the reception slot satisfying the predetermined conditions does not exist. However, Yonekura teaches wherein said traffic channel allocation means of the slave base station allocates the traffic channel to the reception slot satisfying predetermined conditions when said reception slot satisfying said predetermined conditions exists other than said predetermined reception slot (abstract, [0003] and [0008]), and allocates the traffic channel to said predetermined reception slot when the reception slot satisfying the predetermined conditions does not exist (abstract, [0003] and [0008]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Yonekura to Eun, Kotani, and Stanwood to make it possible to connect an emergency call even when there is no free calling slot on a radio line in a mobile object communication system.

Regarding claim 3, Eun, Kotani, Stanwood, and Yonekura further teach the radio base station system according to claim 2, wherein said slave base station further includes:

traffic channel switching means for switching the slot for allocation of the traffic channel to the reception slot satisfying said predetermined conditions (see Yonekura, [0079]-[0083]) when the reception slot satisfying said predetermined conditions occurs among the reception slots other than said predetermined reception slot after the traffic channel is allocated to said predetermined reception channel (see Yonekura, [0079]-[0083]).

Regarding claim 5 is rejected with the same reasons set forth in claim 2.

Regarding claim 6 is rejected with the same reasons set forth in claim 3.

Regarding claim 8 is rejected with the same reasons set forth in claim 2.

Regarding claim 9 is rejected with the same reasons set forth in claim 3.

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI M. NGUYEN whose telephone number is (571)272-7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent P. Harper can be reached on 571.272.7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/  
Supervisory Patent Examiner, Art Unit 2617

/Khai M Nguyen/  
Examiner, Art Unit 2617

6/11/2008